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NOTICE OF DEFICIENCY

05/04/90

**OEPA/DOE-FSO
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LETTER**



State of Ohio Environmental Protection Agency

P.O. Box 1049, 1800 WaterMark Dr.
Columbus, Ohio 43266-0149

2443

Richard F. Celeste
Governor

May 4, 1990

Notice of Deficiency

James A. Reafsnyder
USDOE-FMPC,
P.O. Box 398705
Cincinnati, Ohio 45239-8705

RE: Closure Plan
USDOE-FMPC
OH6 890 008 976

Dear Mr. Reafsnyder:

On September 28, 1989 Ohio EPA received from USDOE-FMPC a closure plan for T-5 and T-6 at your facility located near Fernald, Ohio.

This closure plan was submitted pursuant to Rule 3745-66-12 of the Ohio Administrative Code (OAC) in order to demonstrate that USDOE-FMPC's proposal for closure complies with the requirements of OAC Rules 3745-66-11 and 3745-66-12.

The public was given the opportunity to submit written comments regarding the closure plan in accordance with OAC Rule 3745-66-12 and 3745-66-18. The public comment period extended from October 23, 1989 to November 28, 1989. No public comments were received by Ohio EPA.

Pursuant to OAC 3745-66-12(D)(4), I am providing you with a statement of deficiencies in the plan, outlined in Attachment A.

Please take notice that OAC Rule 3745-66-12 requires that a modified closure plan addressing the deficiencies enumerated in Attachment A be submitted to the Director of the Ohio EPA for approval within thirty (30) days of the

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Mr. Reafsnyder
Page Two

2443

receipt of this letter. The modified closure plan should be submitted to: Ohio Environmental Protection Agency, Division of Solid and Hazardous Waste Management, Attn: Thomas Crepeau, Manager, Data Management Section, P.O. Box 1049, Columbus, Ohio 43266-0149. A copy should also be sent to: Paul Pardi, Southwest District Office, 40 South Main Street, Dayton, Ohio 45402.

Upon review of the resubmitted plan, I will prepare and issue either a draft or a final action approving or modifying such plan. If you wish to arrange a meeting to discuss your responses to this Notice of Deficiency, please contact Randy Meyer at (614) 644-2956 or Paul Pardi at (513) 285-6357.

Sincerely,



Richard L. Shank, Ph.D.
Director

RLS/RM/pas

cc: Tom Crepeau, DSHWM, Central File, Ohio EPA
Lisa Pierard, USEPA, Region V
Joel Morbito, USEPA, Region V
Don Marshall, SWDO, Ohio EPA
Paul Pardi, SWDO, Ohio EPA
Randy Meyer, CO, Ohio EPA

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ATTACHMENT A
USDOE - FMPC
OH6 890 008 976
T5 & T6 CLOSURE PLAN
REVIEW COMMENTS

1. Page 6 of the plan states that both tanks were used for storage of a blend of 1,1,1-trichloroethane and mineral spirits. Page 2 of Appendix A states that a variety of wastes were stored at this unit. The plan must describe all wastes that were stored in these tanks over their lifetime. Where available, laboratory analysis for those wastes stored in these tanks must be provided.
2. Parameters for which rinseate and soil samples will be analyzed must be based on the data provided in response to Comment No. 1 above.
3. Decontamination effectiveness (for the tanks and pad decontamination) must be determined through rinseate analysis rather than through the analysis of wipe samples. Clean levels for rinseate shall be:
 - (1) Public drinking water maximum contaminant level (MCL) for hazardous waste constituents as promulgated in 40 CFR 141.11 and OAC 3745-81-11 for inorganics and 40 CFR 141.12 and OAC 3745-81-12 for organics;
 - (2) If an MCL is not available, then the maximum contaminant level goal (MCLG) as promulgated in 40 CFR 141.50 shall be used; or
 - (3) If neither an MCL or an MCLG is available, 1 mg/l shall be used.

If the MCL or MCLG is less than the contaminant's analytical detection limit using methods found in USEPA Publication SW-846, the SW-846 analytical detection limit shall be used as the clean standard.
4. Page 10 of the plan addresses removal of containers. Specify the number of containers stored on the pad at the time of closure and specify the contents of these containers.
5. The drawing offered as Attachment 2 is illegible. Please provide a readable, detailed drawing of these units and the surrounding area. Also provide detailed drawings of Tanks 5 and 6 which indicate dimensions of the tanks and show any piping or other associated equipment/devices.
6. Since Tanks 5 and 6 share the same containment structure with 3 other tanks, please indicate the contents of Tanks 2, 3, and 4.
7. The plan shall specify whether the containment pad is diked and provide details regarding the dike.

8. The plan shall include provisions for inspecting the pad and diking for cracks or other damage that may have allowed the release of spilled or leaked material to the soil underneath or surrounding the pad. Should such cracks or other damage be found during this inspection, soil sampling locations shall be based on the location of these potential release points.
9. The plan states that leaks from drums stored at this site have been known to occur. Any document that is available regarding the leaked material (material leaked, quantity, date, etc.) must be provided with this plan.
10. The plan proposes the collection of soil samples underneath the pad, around the perimeter of the pad, and at other locations at the facility (as background samples). There is much discussion as to the method of determining how many samples should be collected from these areas. Of greater interest is the specific locations from which these samples will be collected. Please provide drawings which show specific sampling locations for the soils underneath the pad, for soils around the pad, and for background samples. Provide text which discusses the rationale for the locations selected.

USDOE - FMPC shall select sixteen background sampling points in consultation with Paul Pardi, Ohio EPA, SWDO. These points shall be selected to represent an area not directly affected by any waste activities. All points and sampling data from these points shall be reviewed and approved by Ohio EPA. Analytical data from these points shall be submitted to Paul Pardi, Ohio EPA, SWDO, within ten (10) days of receipt by USDOE - FMPC. Ohio EPA may reject any sampling point.

11. Soil samples under the pad shall be taken at the shallowest depth possible, that is at the gravel/soil interface. Only enough sample shall be collected to satisfy laboratory analysis requirements. Mixing of the sample shall be kept to a minimum to prevent volatilization of any organic constituents that might be present. Please revise the soil sampling plan accordingly.
12. The plan states that the soil samples will be analyzed for Uranium, but that the results of this testing will not be reported. The results of this testing must be reported since it affects the ultimate disposal of this material. Rinseate from pad decontamination shall also be analyzed for radioactive constituents.

Ohio EPA does not accept the premise that all wastes generated at FMPC are radioactive mixed wastes. FMPC must propose a method for determining which hazardous wastes or soils are contaminated with radioactive wastes. Hazardous wastes or soils not contaminated with radionuclides shall not carry the designation "radioactive mixed waste" and shall not be subject to any treatment/disposal encumbrances associated with radioactive mixed wastes.